PTO/SB/01 (08-03)

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Attorney Docket Number

DESIGN PATENT APPLICATION (37 CFR 1.63) Declaration Submitted With Initial Filing Declaration Submitted Submitted after Initial Filing (37 CFR 1.16 (e)) required) First Named Inventor Ba-Zhong Shen, Ph.D. COMPLETE IF KNOWN Application Number Filing Date Art Unit Examiner Name							
(37 CFR 1.63) Application Number Filing Date Submitted OR Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required) Examiner Name							
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required)							
I hereby declare that:	フ						
I hereby declare that: Each inventor's residence, mailing address, and citizenship are as stated below next to their name.							
I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
LDPC (Low Density Parity Check) coded modulation symbol decoding using non-Gray code maps for improved performance							
(Title of the Invention)							
the specification of which is attached hereto							
·							
OR							
was filed on (MM/DD/YYYY) as United States Application Number or PCT Internation	al						
Application Number and was amended on (MM/DD/YYYY) (if applicable).							
	1						
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.	for on						
amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for paternational discountries.	for on nt,						
amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.	for on nt, ne						
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amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for pater inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least country other than the United States of America, listed below and have also identified below, by checking the box, any fore application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing disperse that of the application on which priority is claimed.	for on nt, ne gn						

[Page 1 of 2]
This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DECLARATION — Utility or Design Patent Application

pirect all correspondence to:									
Name Garlick Harrison & Markison LLP									
Address P.O. Box 160727									
City	-			Stat	е				ZIP
Austin				Texas				78716-0727	
Country		Telephone	€			Fax			
USA (512) 825-1145			1145	(512) 394-0054					
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.									
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor									
Given Name			-	Family Name					
(first and middle [if any])	Ba-Zhong					or Surna	ame S	Shen,	Ph.D.
Inventor's									Date
Signature	stre								3/2/04
Residence: City	State			Cou	ntry			Citizen	ship
Irvine	CA L			USA	USA USA				
Mailing Address 22 Wyoming									
City	State			ZIP				Country	
Irvine	CA				92606			JSA	
NAME OF SECOND INVENTO	R:] A	petition h	as bee	n filed fo	or this unsigned inventor
Given Name Family Name									
(first and middle [if any]) Hau Thien					or Surname Tra			an	
Inventor's Signature	Tran	 -							Date 3/8/04
Residence: City	State			Cou	ntry			Citizen	ship
Irvine				USA USA		USA			
Mailing Address 19 Purple Sage									
City	State				ZIP			Countr	у
Irvine	CA				92612 USA				
Additional inventors or a legal re	presentative are bein	ng named on	the 1 s	upplem	nental sh	neet(s) PTC)/SB/02A	or 02LR a	ttached hereto.

PTO/SB/02A (08-03) Approved for use through 08/31/2003. OMB 0651-0032

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ADDITIONAL INVENTOR(S)

DECLARATION	Supplemental Sheet Page 1			1 of 1	
Name of Additional Joint Inventor, if any:		A petition	has been filed for this	s unsigned in	ventor
Given Name (first and middle (if any)	Family Name or Surname				
Dr. Kelly Brian	Cameron				
Inventor's Signature	/			Date 4	8/24
Irvine Residence: City	CA State	US/ Co	A untry	USA / Citizenship	,
4171 Blackfin Mailing Address		,			
Mailing Address					
Irvine	CA		92620	USA	
City	State	<u> </u>	Zip	Country	
Name of Additional Joint Inventor, if any:	<u></u>	A petition	has been filed for this	s unsigned in	ventor
Given Name (first and middle (if any)		Family Name or Sumame			
Inventor's Signature		Date			
Residence: City	State	<u> </u>	Country		Citizenship
Mailing Address					
Mailing Address					
City	State	:	Zip	Country	
Name of Additional Joint Inventor, if any:		A petition	has been filed for this	s unsigned in	ventor
Given Name (first and middle (if any)		Family Name or Surname			
					
Inventor's Signature		Date			
Residence: City	State	1	Country		Citizenship
Mailing Address					
Mailing Address					
City	State	•	Zip	Country	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

POWER OF ATTORNEY FROM ASSIGNEE

Broadcom Corporation, a California corporation having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-7013, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on of an invention known as						
•	k) coded modulation symbol decoding using non-Gray ance (Attorney Docket No. BP3089CIP)					
which is disclosed and claimed in a	patent application of the same title by the inventor(s)					
Ba-Zhong Shen, Ph.D., Hau Thier	n Tran, and Dr. Kelly Brian Cameron					
(said application filed on).	at the U.S. Patent and Trademark Office, having					
The Assignee hereby appoints the U.S. attorneys/agents associated with Garlick, Harrison & Markison, LLP (USPTO CN 34399) to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys/agents currently being:						
James A. Harrison Reg. I Timothy W. Markison Reg. I Shayne X. Short, Ph.D. Reg. I William W. Kidd Reg. I	No. 36,520 No. 40,401 No. 33,534 No. 45,105 No. 31,772 No. 44,924					
The Assignee hereby grants said attorneys/agents the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.						
Please send correspondence to: Garlick Harrison & Markison LLP P.O. Box 160727 Austin, Texas 78716-0727.						
Please direct phone calls to: Shayne X. Short, Ph.D. (512) 825-1145.						
FOR: Broadcom Corporation						
SIGNATURE: _	March					
BY: Dee Henderson Manager, Intellectual Property Portfolio						
TITLE: _						
DATE: _	3-16-04					

Certificate Under 37 CFR 3.73(b)

Applicants:

Ba-Zhong Shen, Ph.D.

Hau Thien Tran

Dr. Kelly Brian Cameron

Entitled: LDPC (LOW DENSITY PARITY CHECK) CODED MODULATION SYMBOL DECODING USING NON-GRAY CODE MAPS FOR IMPROVED PERFORMANCE

App	lication No.		Filing Date:				
	Broadcom Cor	poration	a, California Corporation				
	(Name of Ass	ignee)	(Type of Assignee)				
states t	that it is :						
1. X		he entire right, title, and interest; or					
2.	an assignee of a	n undivided part interest					
in the p		patent identified above by virtue of eithe					
A. X			ion/patent identified above. The assignment				
	was recorded in		el, Frame, or for which a				
OD	copy thereof is a	attached.					
OR B. [7 A chain of title f	for the inventor(s) of the natent annlicati	ion/patent identified above to the current				
ь	assignee as show		on patent identified above to the editent				
		To:					
	The doc	cument was recorded in the Patent and	Trademark Office at				
	Reel	, Frame, or for which a c					
		cument was recorded in the Patent and					
		, Frame, or for which a c					
		To:					
		cument was recorded in the Patent and					
		, Frame, or for which a c					
		nal documents in the chain of title are lis					
X		ments or other documents in the chain					
			gnment document or a true copy of the original				
		gnment is to be recorded in the records	ivision in accordance with 37 CFR Part 3, if				
	the assig	gillinein is to be recorded in the records	of the 110. See Wi Li 302-302.6]				
The un	dersigned (whose	title is supplied below) is empowered to	o act on behalf of the assignee.				
_		3-16-0A					
Date: _		3-16-04 Dee Henderson					
Nama		Dee Henderson					
ivailie.	Mar	nager, Intellectual Property Portfolio					
Title:							
_		A A A					
Signatu	ıre:	// Smar					
)					